

1/21

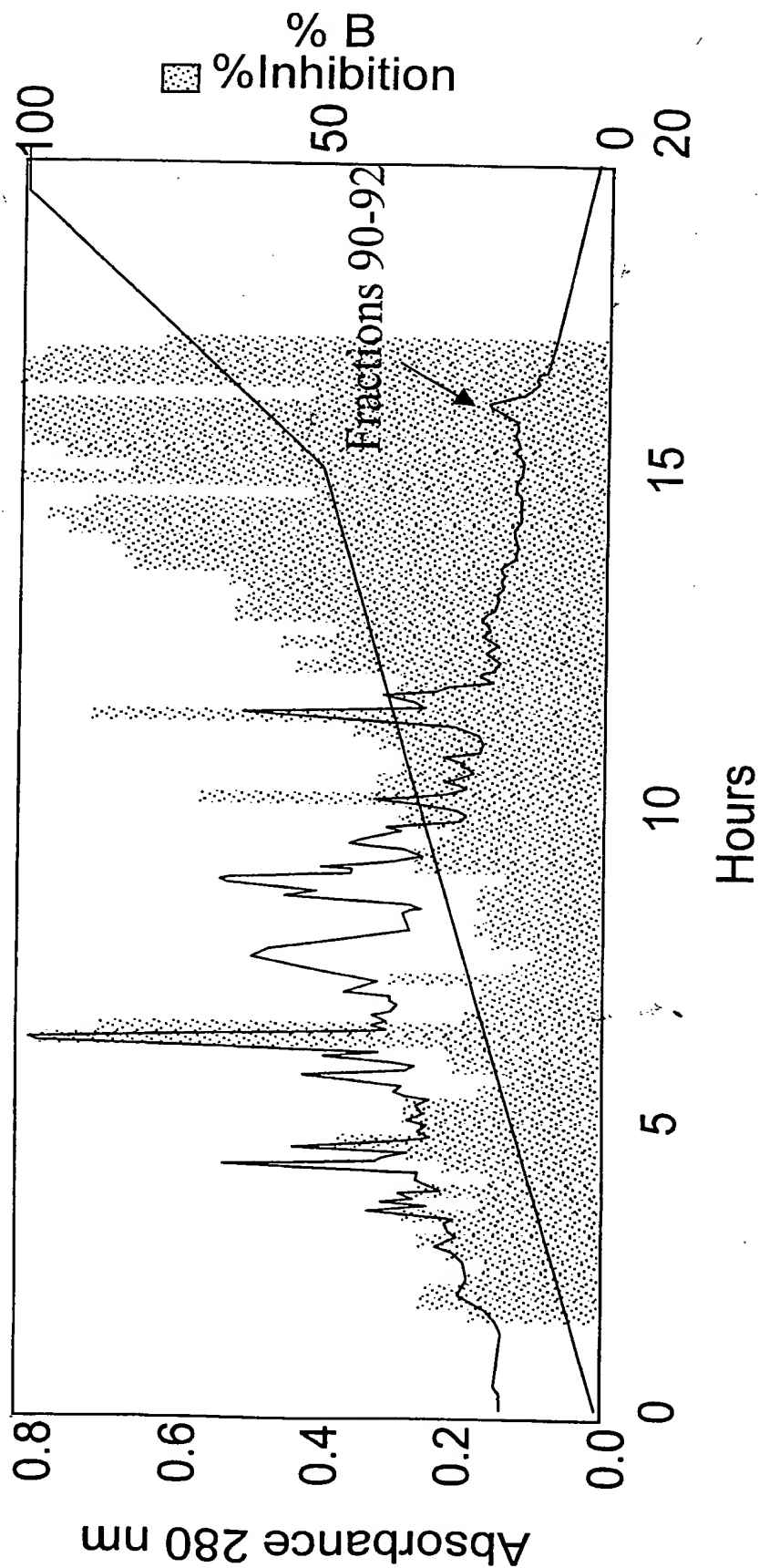


Fig. 1

2/21

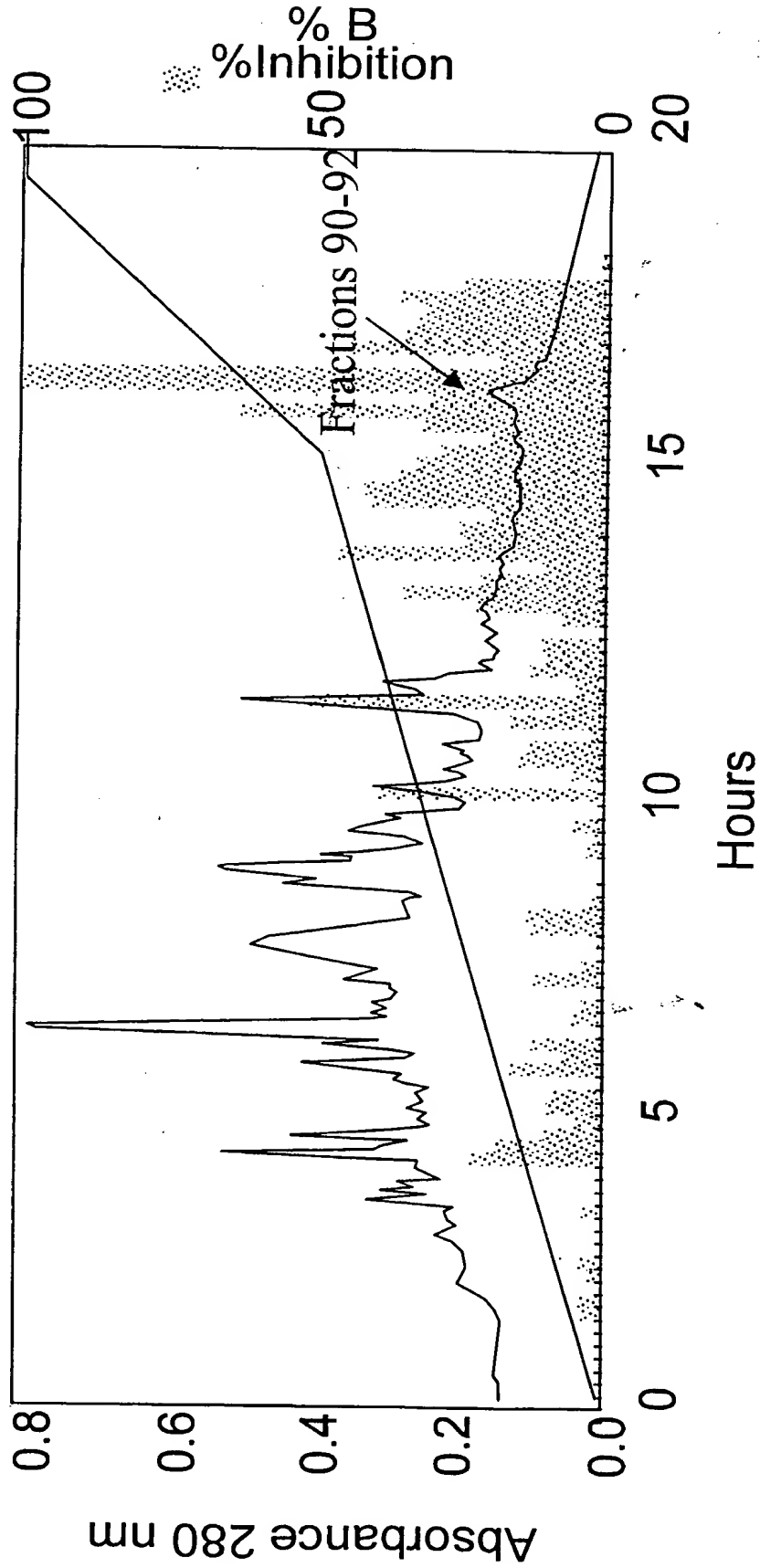


Fig. 2

3/21

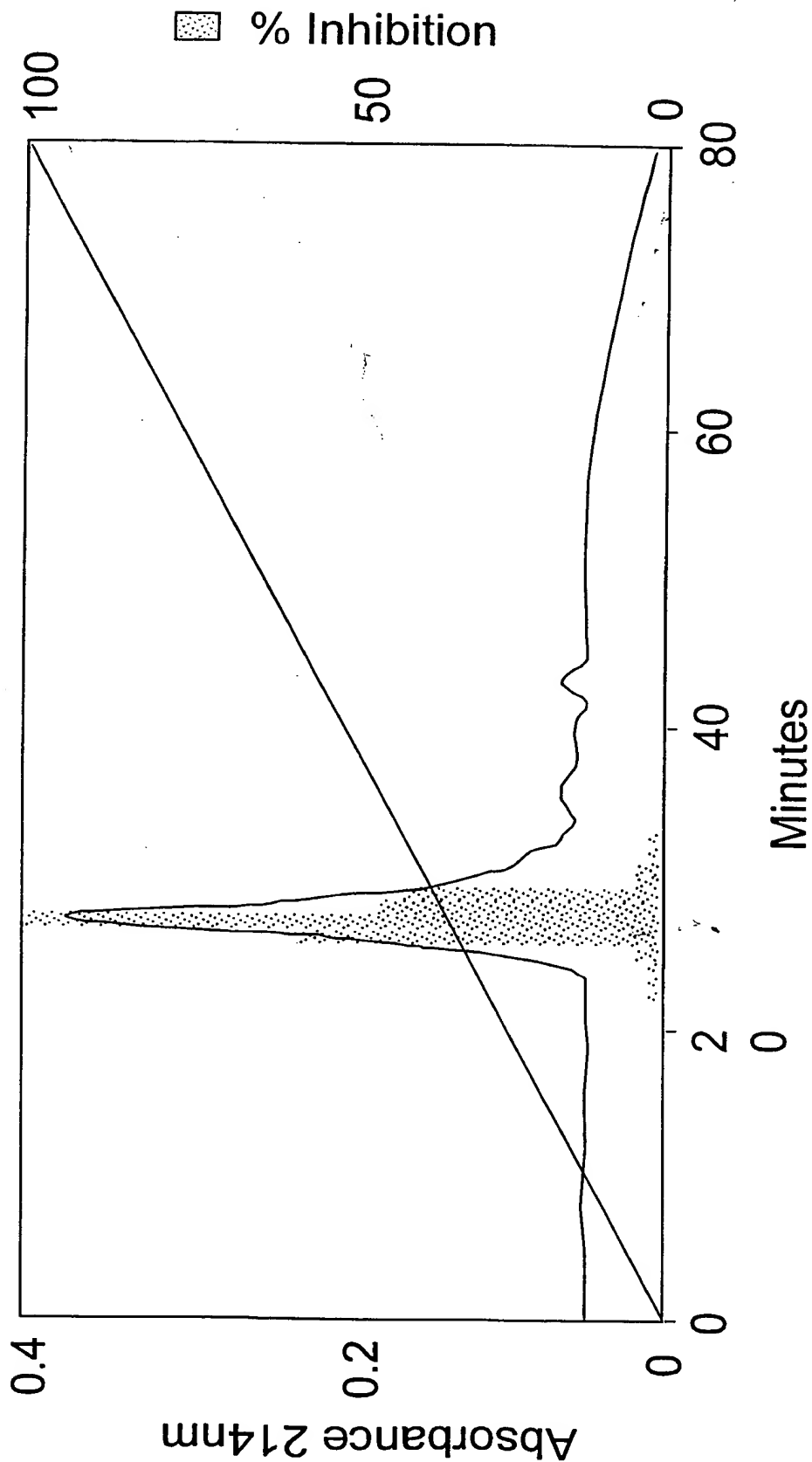


Fig. 3

4/21

Mi2a	1	SEFDRQEECKRQCMQLE-TSG-QMRRCVSQCD	32
Mi2b	1	NQEDPQTECQQCQRRCRQQE-SGPRQQYQCORRCK	34
Mi2c	1	NRQDPQQQYEQCQKHQCORRE-TEPRHMQTQQQRCE	35
Mi2d	1	KRDPQQREYEDCRRRCQQE---PRQHQHQQQLRCR	32
Cocoa-a	1	YERDPQQYEQCQRRCESEA-TEEREQEQCEQRCE	34
Cocoa-b	1	LQRQYQQCQGRQCEQQ-QGQREQQCQQRKCW	30
Cotton-a	1	GDDDPFKRYEDCRRRCCEWDT-RGQKEQQQCEESCK	34
Cotton-b	1	PEDPQRRYEECQQCECRQQE---ERQQPQCQQRCL	31
Cotton-c	1	SQRQFQECQQHCHQQE-QRPEKKQQCVRECR	30
maize glb1_0 fr	1	EDDNHHHHGCHKSGRCVRRCEDR---PWHQRPRLCQECR	36
barley glob fra	1	HDDEDDRRGGHSLQQCVQRQCRQER--PRYSHARCQVECR	37
Peanut-a	1	TENP--CAQRCLQSCQQE--PDDLKQKACESRCT	30
alpha conglycin	1	ENP--KHNKCLQSCNSER--DSYRNQACHARC	29
SsAMP1 partial	1	VKEQDHQFETRGEILECYRLCQQQ	23
SsAMP2 partial	1	QKHSQILGCCYLXCQQQL	17
SsAMP3 partial	1	LDPIRQQQLCQMRCCQQQEKD-PRQQQQCK	28

Fig. 4(1/2)

5/21

Mi2a	33	KR FEED IDWSKYD	45
Mi2b	35	EI CEEE EY	43
Mi2c	36	RR YE KEKRKQKRYEEQQREDEEKYEERM KEED N	69
Mi2d	33	EQQRQHGRGGMMNPQRGGSGRY EEEE EQS	63
Cocoa-a	35	RE YKE QQRQ EEE	47
Cocoa-b	31	EQ YKE QERGEHENYHNHKKNR SEEE GGQQR	60
Cotton-a	35	SQ YGE KDQQQRHR	47
Cotton-b	32	KR FE EQEQQQ	40
Cotton-c	31	EK YQ ENPWRGER	42
maize glb1	37	EEER EK RQERSRHEADDRSGEGSS	60
barley glob	38	DDQQQHGRHEQEEEQGRGRGWHG EGEE	66
Peanut-a	31	KLEYDPR CV YDTGATNQRHPPGERT--RGRQP	60
alpha conglycin	30	LLKVE KEE CEEGEIPRPRRPQHPER	55
SsAMP1 partial	23		23
SsAMP2 partial	17		17
SsAMP3 partial	28		28

Fig. 4 (2/2)

6/21

AACTCTAGAG CGGCCGCGTC GACTATTTT ACAACAATTA CCAACAACAA CAAACAACAA 60

ACAACATTAC AATTACTATT TACAATTACA GGATCCACAA CAATGGCTTG GTTCCACGTT 120
M A W F H V>

TCTGTTTGTG ACGCTGTTT CGTTGTTATT ATTATTATTA TGCCTCTTAT GTTCGTTCCCT 180
S V C N A V F V V I I I I M L L M F V P>

GTTGTTAGAG GTAGACAAAG AGATCCCTCAA CAACAATACG AGCAATGTCA AAAGAGGTGT 210
V V R G R Q R D P Q Q Q Y E Q C Q K R C>

CAAAGGAGAG AGACTGAGCC TAGACACATG CAAATTGTC AGCAAAGGTG TGAAGGAGG 240
Q R R E T E P R H M Q I C Q Q R C E R R>

TACGAGAAGG AGAAGAGGAA GCAACAAAAG AGGTGAGGAT CCGTCGACGC GGCCGCAGAT 270
Y E K E K R K Q Q K R *

CTAGACAA 278

Fig. 5

7/21

Mi clone 1	1	MAINTSNLCSLFLLSL-FLSTTVSLAE----	SEFDRQEE	38
Mi clone 2	1	MAINTSNLCSLFLLSL-FLSTTVSLAE----	SEFDRQEE	38
Mi clone 3	0			0
cotton vicilin	1	MVRNKSACVVLLFSLFSLFGLLCSAKDFPGRRGDD-----		35
cocoa vicilin	1	MVISKSPFIVLIFSLLSFALLCSGVSAYGRKQYER-----		36
		*. . * * * * *		
Mi clone 1	39	CKRQCMQLETSGQMRRCVSQCDKRFEEDIDWSKYDNQEDPQTECQ		83
Mi clone 2	39	CKRQCMQLETSGQMRRCVSQCDKRFEEDIDWSKYDNQDDPQTdCQ		83
Mi clone 3	42	QCMQLETSGQMRRCVSQCDKRFEEDIDWSKYDNQEDPQTECQ		83
cotton vicilin	36	-----DPPKRYE		42
cocoa vicilin	37	-----DPRQQYE		43
		**		
Mi clone 1	84	QCRRCRQQESGPRQQQYQRRCKEICEEEFYNRQR--DPQQQY		126
Mi clone 2	84	QCRRCRQQESGPRQQQYQRRCKEICEEEFYNRQR--DPQQQY		126
Mi clone 3	84	QCRRCRQQESdPRQQQYQRRCKEICEEEFYNRQR--DPQQQY		126
cotton vicilin	43	DCRRRCEDWTRGQKEQQCEECKSQYGEKDQQQRHRPEDPQRRY		87
cocoa vicilin	44	QCRRCESEATEEREQEQQCEQRCEREYKEQQRQQ---EEELQRQY		85
		*.*** . . . * * * . * . *		

Fig. 6 (1/6)

8/21

Mi clone 1	127	EQCQKhCQRRETEPRHMQT	CQQR	CERR	YEKEKRKQKRYEEQQR	171		
Mi clone 2	127	EQCQeRCQRhETEPRHMQT	CQQR	CERR	YEKEKRKQKRYEEQQR	171		
Mi clone 3	127	EQCQKRRCQRRETEPRHMQI	CQQR	CERR	YEKEKRKQKRYEEQQR	171		
cotton vicilin	88	EECQQE	CRQQEE	--RQQPQ	CQQR	CLKR	FEQEQQ	118
cocoa vicilin	86	QQCQGR	CQEQQQ	QGR	QQCQ	CKWEQY	-KEQ	116
		..**	*..*	**..*	***	..*	..*	
Mi clone 1	172	DEEKYEERMKEEDNKRD	PQQRE	YED	CRRR	CEQQE	--PROQHQCQ	214
Mi clone 2	172	DEEKYEERMKEEDNKRD	PQQRE	YED	CRRR	CEQQE	--PRQYQCQR	214
Mi clone 3	172	DEEKYEERMKEgDNKRD	PQQRE	YED	CRRh	CEQQE	--PRIQYQCQR	214
cotton vicilin	119	-----	-----	-----	QSQRQ	FQEC	COQHCHQEQEORPEKKQQCVR	146
cocoa vicilin	117	-----	-----	-----	-----	-----	-----	116
Mi clone 1	215	RCREQQRQHGRGGD	mNPQR	GGSGRY	EEGEE	eQSDN	PYF-DERS	258
Mi clone 2	215	RCREQQRQHGRGGD	LiNPQR	GGSGRY	EEGEE	KQSDN	PYF-DERS	258
Mi clone 3	215	RcQEQQRQHGRGGD	LMNPQR	GGSGRY	EEGEE	KQSDN	PYF-DERS	258
cotton vicilin	147	ECREKY	--QENPWR	GERE	EEEE	EEETE	EEGEQEQSHNPFHF-HRRS	188
cocoa vicilin	117	-----	-----	ER-GEHENYHNHKKNR	SEEEE	GQQRN	PYPFKRRS	151
		**	*	*	*	*	*	**

Fig. 6 (2/6)

9/21

*
*
*
*
*
*
*

*
*

*

*

*

*

*
*
*
*
*

[illegible][illegible]

Fig. 6 (3/6)

[illegible]

*
*
*
*
*
*
*
*
*
*

[illegible][illegible]

Fig. 6 (4/6)

11/21

Mi clone 1 524 ACPHLSGRHGGGGR**HEEEED**-----VHYEQVRARLSKREAIV 563
 Mi clone 2 524 ACPHLSGRHGGGR**rGGKRHEEEED**-----VHYEQV**k**ARLSKREAIV 563
 Mi clone 3 524 ACPHLSGRHGGGGR**HEEEED**-----VHYEQVRARLSKREAIV 563
 cotton vicilin 455 VSPHLPRQSSY**EEEEEEDEEEEQE**EEERRSGQYRKIRSLRSGD 499
 cocoa vicilin 419 ACPHLSRQSQSGRQDRR**EQEEEESEEE**TFGEFQQVKAPLSPGD 463
 .*** . *

Mi clone 1 564 ---VLAGHPVVFVSSGNENLLFAFGINAQNNHEN-----FLAGR 600
 Mi clone 2 564 ---V**p**VGHPVVFVSSGNENLLFAFGINAQNNHEN-----FLAGR 600
 Mi clone 3 564 ---VLAGHPVVFVSSGNENLLFAFGINAQNNHEN-----FLAGR 600
 cotton vicilin 500 IFVVPANFPVTFVASQONLMTGFGLYNQININPDHNQRI FVAGK 544
 cocoa vicilin 464 VFVAPAGHAVTFFASKDQPLNAVAFGLNAQN-----NQRIFLAGR 503
 . * * * . * * * . * * * .

Mi clone 1 601 ERNVLQQIEPQAMELAFAAPRKEVEE**s**FNSQ-D**q**SIFFPGRQHQQ 645
 Mi clone 2 601 ERNVLQQIEPQAMELAFAAPRKEVEEELFNSQ-DESIFFPGPRQHQQ 645
 Mi clone 3 601 ERNVLQQIEPQAMELAFAA**s**RKEVEEELFNSQ-DESIFFPGPRQHQQ 645
 cotton vicili 545 INHVRQ-WDSQAKELAFGVSSRLVDEIFNSNPQES-YF-VSRQRQR 587
 cocoa vicilin 504 -----PFFLNHKQNTN 514
 * . .

Fig. 6 (5/6)

12/21

Mi clone 1	646	QSPRSTKQQQPLVSILDFVGF	666
Mi clone 2	646	QSRSTKQQQPLVSILDFVGF	666
Mi clone 3	646	QSPRSTKQQQPLVSILDFVGF	666
cotton vicilin	588	ASE	590
cocoa vicilin	515	VIKFTVKASAY	525

Fig. 6 (6/6)

13/21

	1	10	20	30	40	47
MiAMP2c	<u>RQRDPQQQYE</u>	<u>QCQKRCQRRE</u>	<u>TEPRHMQICQ</u>	<u>QRCERRYEKE</u>	<u>KRKQQQR</u>	
Gibrat method	CCCCCCCCCH	HHECCCCCCC	CCCCCCCCEEC	CCCCCCCCHH	HHHHHHH	
Levin method	CCCCCHCCHH	HHHHHCHHT	HCSCCCECC	CHHTHHHHH	HHHCHH	
DPM method	CCCCCCCCCH	HHHHHHHHH	CHCCHHEEH	HHHHHHHHH	HHHHHCC	
SOPMA method	CCCCCHHHH	HHHHHEECC	CCCCHHEEE	EHHHHHHHH	HHHHHHH	
PhD method	CCCCHHHHH	HHHHHHHHH	CCCCCHHHH	HHHHHHHHH	HHHCC	
Consensus	<u>CCCCCHCCHH</u>	<u>HHHHH-HH-</u>	<u>CCCC--EE-</u>	<u>-HHHHHHHH</u>	<u>HHHHHHH</u>	

Fig. 7

14/21

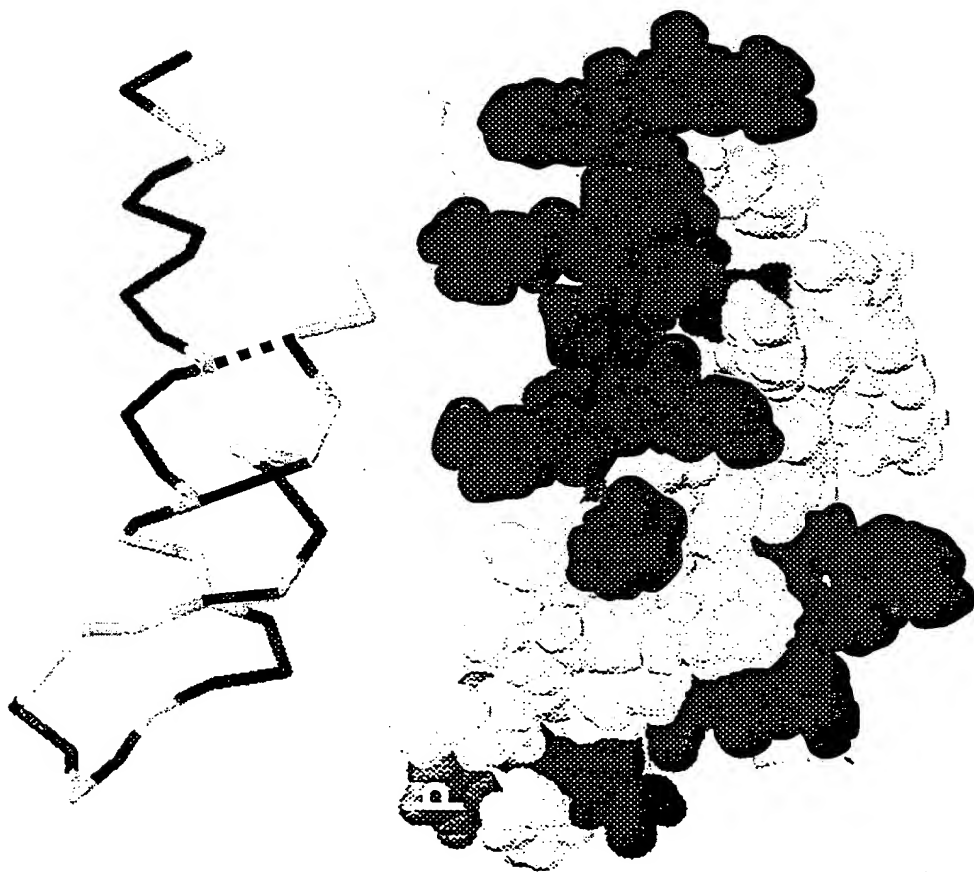


Fig. 8

667290 TESTED

WO 98/27805

09/331631

PCT/AU97/00874

15/21

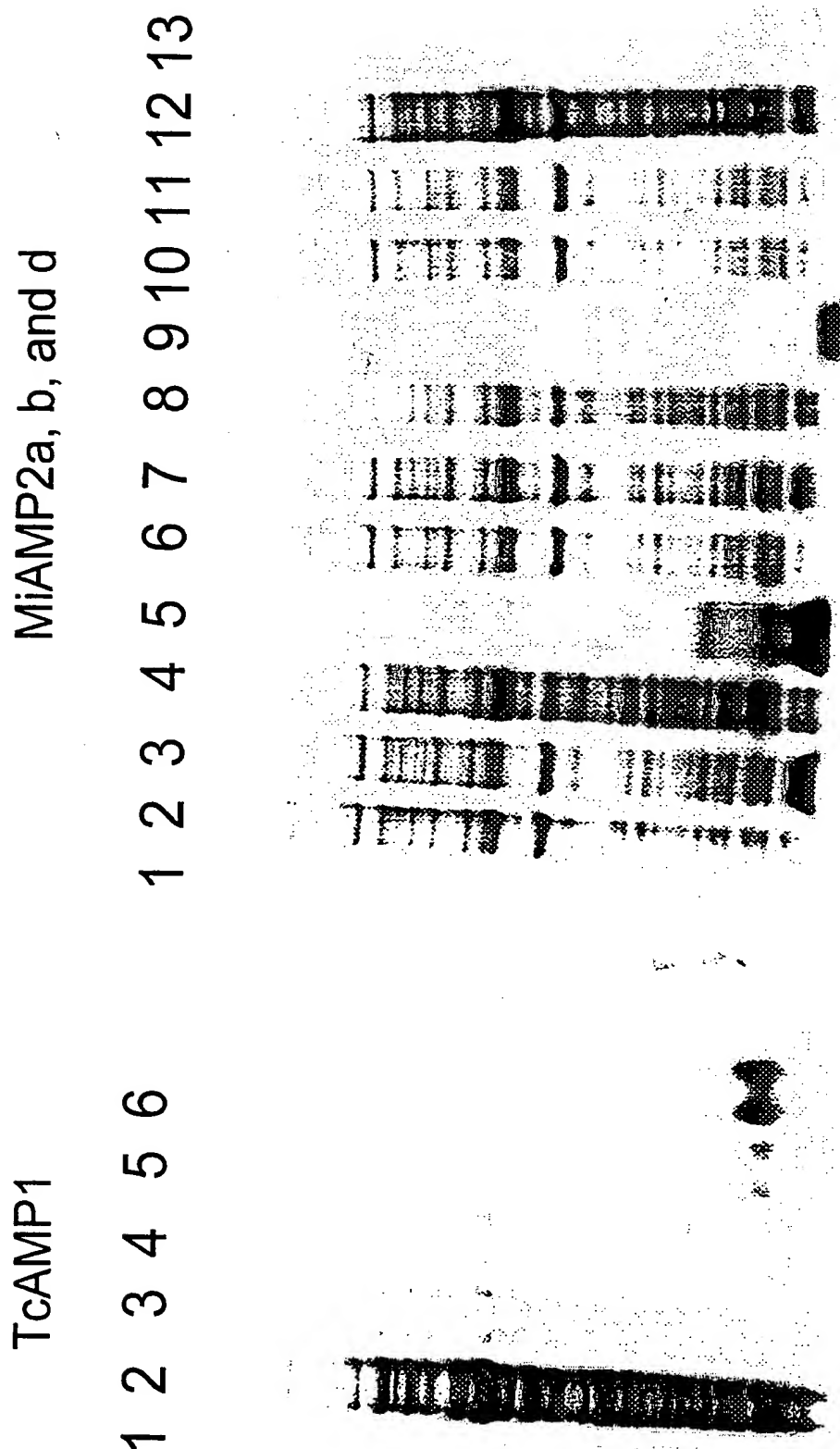


Fig. 9

16/21

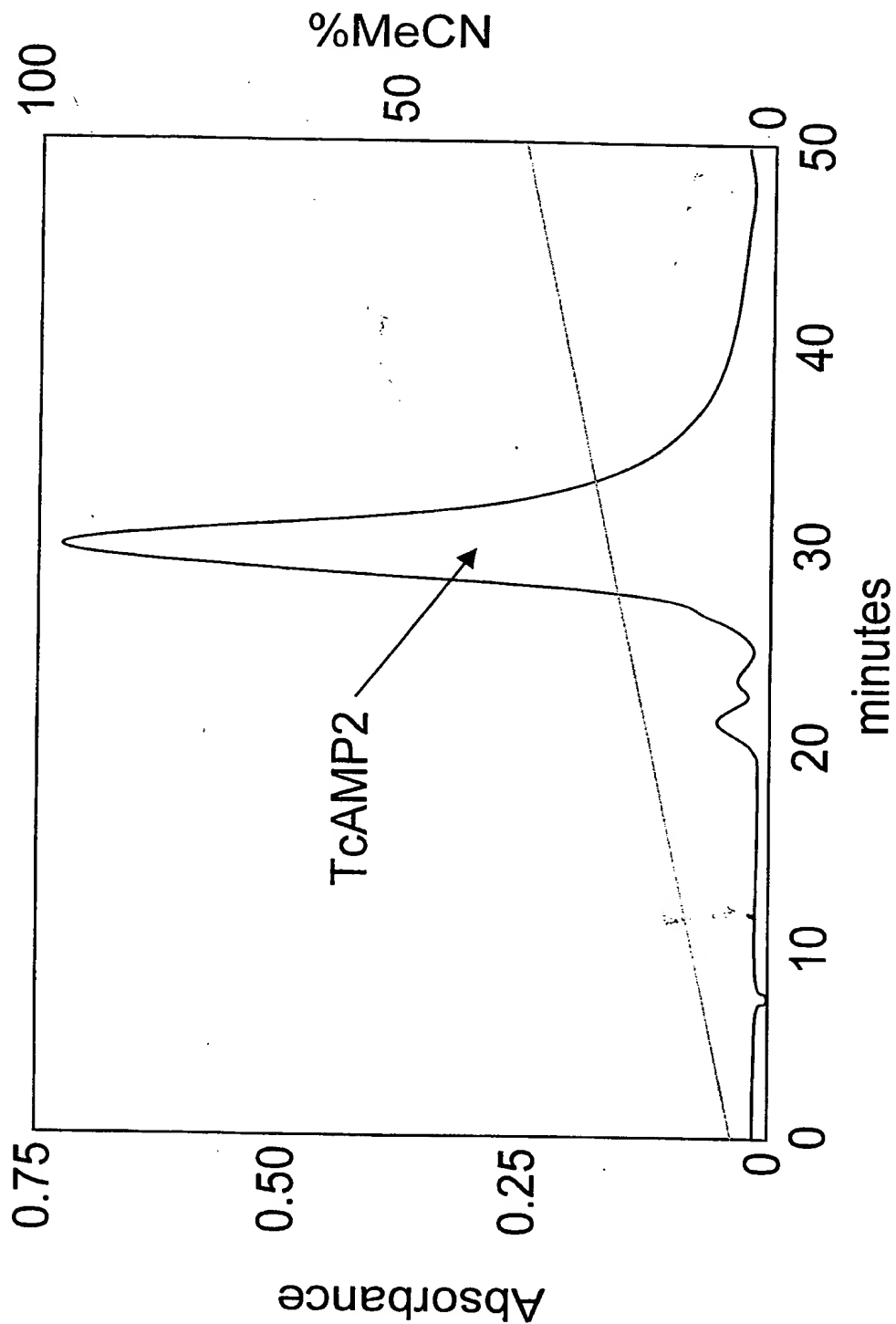


Fig. 10

17/21

607250-75972200

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

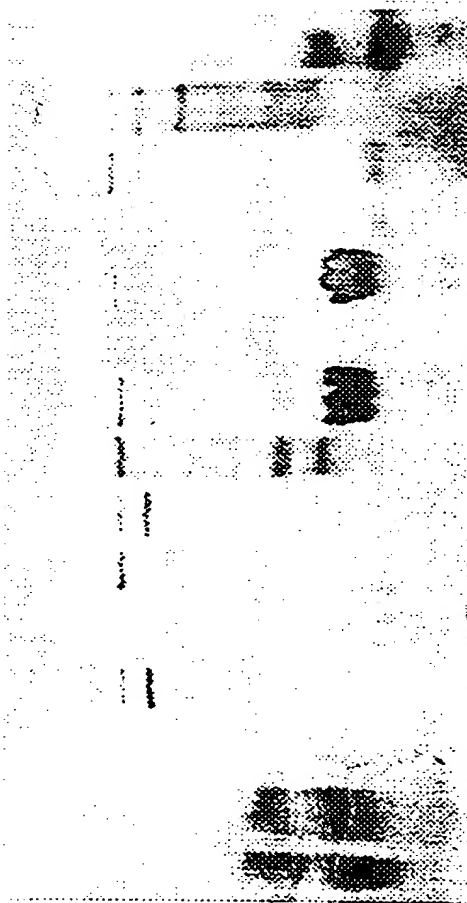
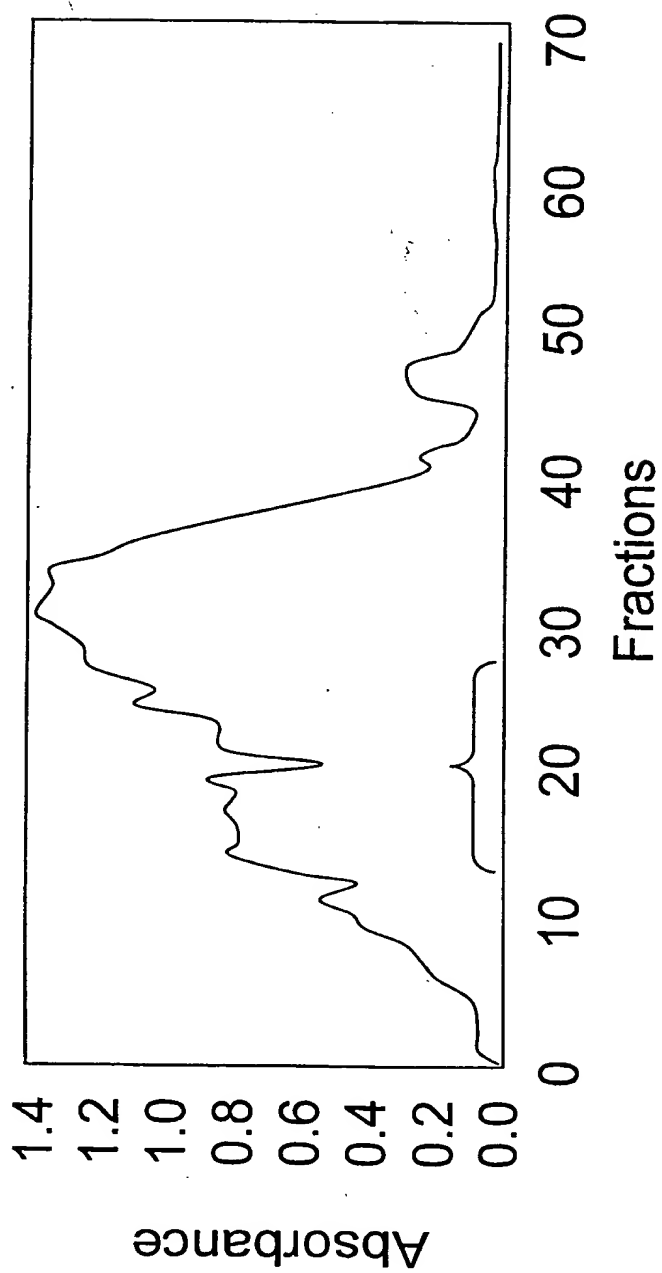


Fig. 11

18/21



Fractions 14-28

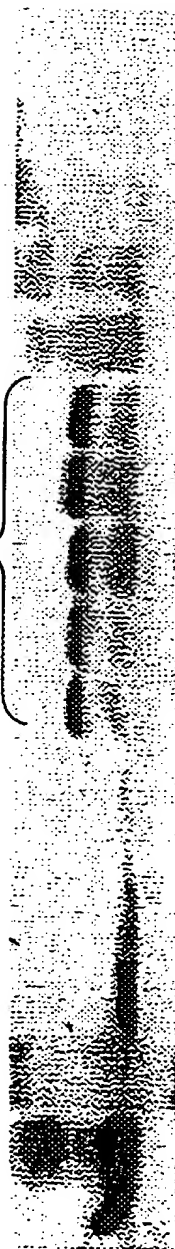


Fig. 12

19/21

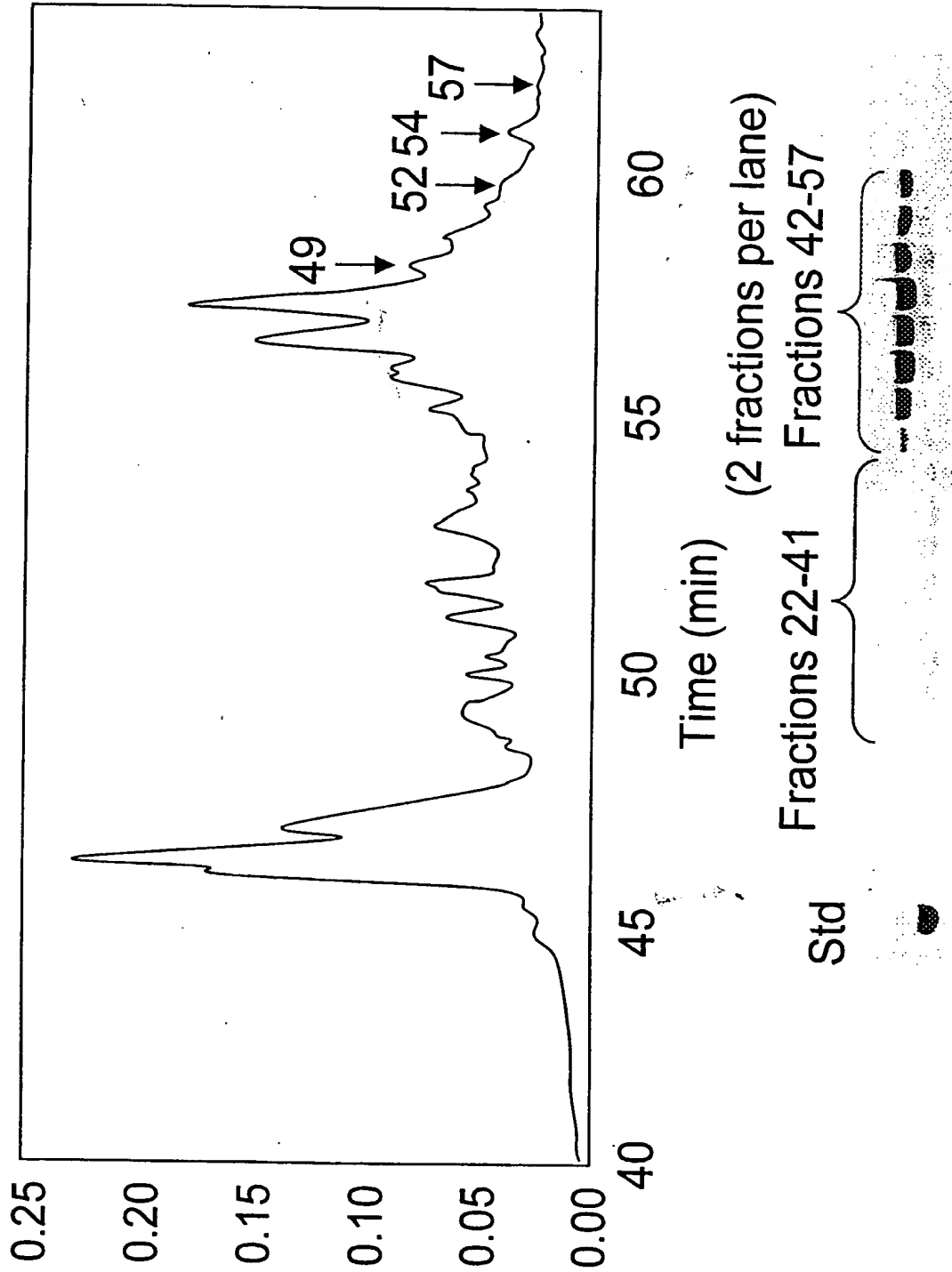


Fig. 13

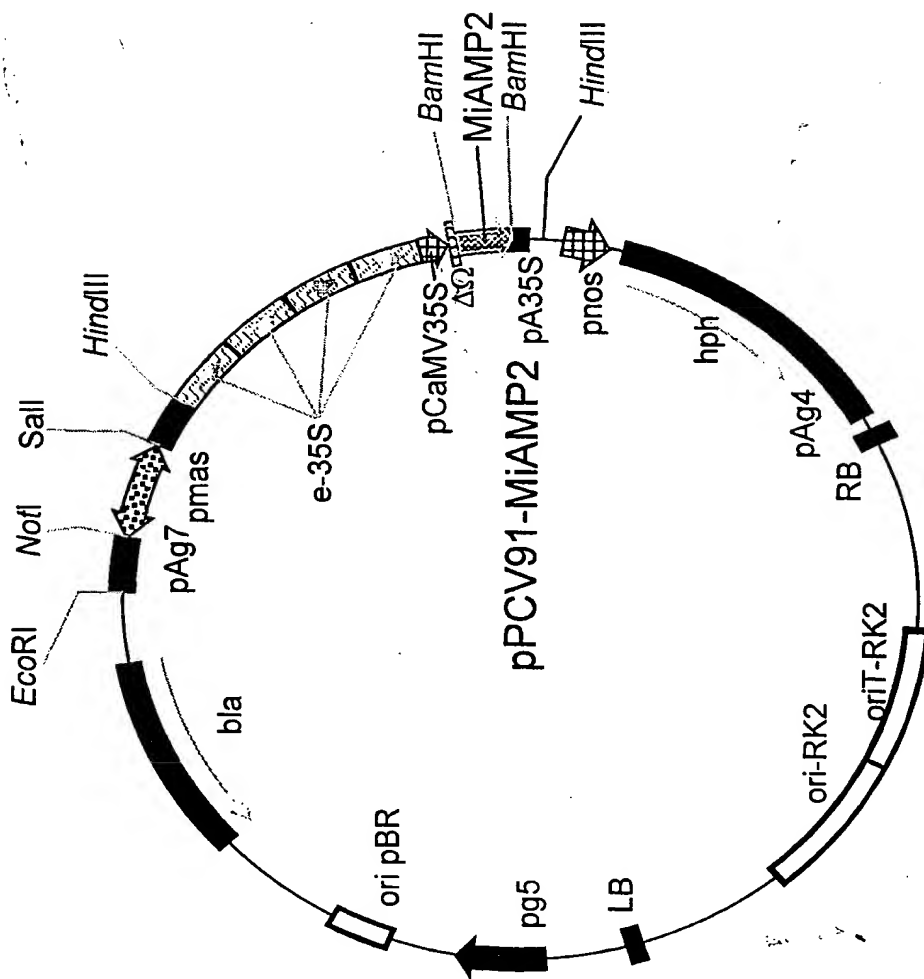


Fig. 14

21/21

1 2 3



Fig. 15